

American Zinc Products Pond progress meeting

Nov 10th 2021



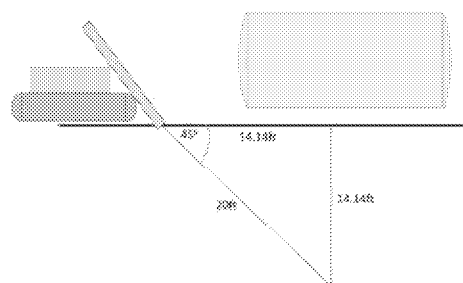
Agenda

1. Site evaluation.
2. Site remediation.
3. Review action tracker.
4. Update on AOC.
5. General and closure.

1. Site Evaluation Status

- Waste Characterization results of roll-off boxes received.
- Sampling of soils below process tanks in progress. Completed tomorrow. Tagging bedrock well.
- Sampling and sediment mapping of UT-1 and fourth round of UT-4 sampling completed. Added dissolved analytical parameters. Added Broad River dissolved sample at confluence.
- Rotamine dye injection tentatively planned for Thursday. Application in preparation.
- Installation of wells and further borings west of process ponds, scheduled for Nov 29th.
- Contracting LIDAR survey of entire plant to obtain good topographical data.

1. Site Evaluation Status - drilling



AZR AMERICAN
ZINC RECYCLING
the sustainable solution

2. Site remediation

Phase 1 soil remediation:

- Completed.

Logistics:

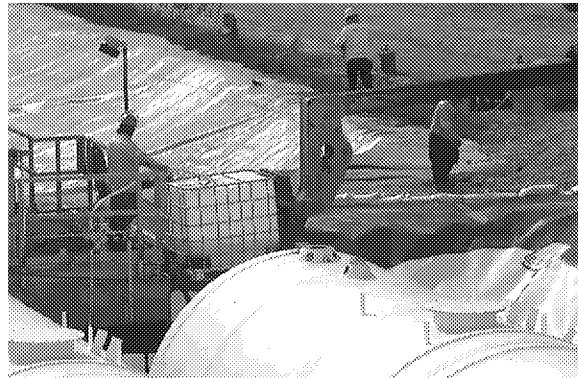
- Analytical data for profiling of roll-offs received.

Liquid recovery systems:

- Second weekly pumping event performed on November 9th:

Date	Point	Amount Recovered	pH	Comments
11/9	Depleted Solution	100 mL	3.28	
	Raffinate	0 gal	n/a	
	Maintenance (Tote A)	125 gal.	2.72	
	Maintenance (Tote B)	10 gal.	2.55	Organic layer on top of solution recovered in tote.

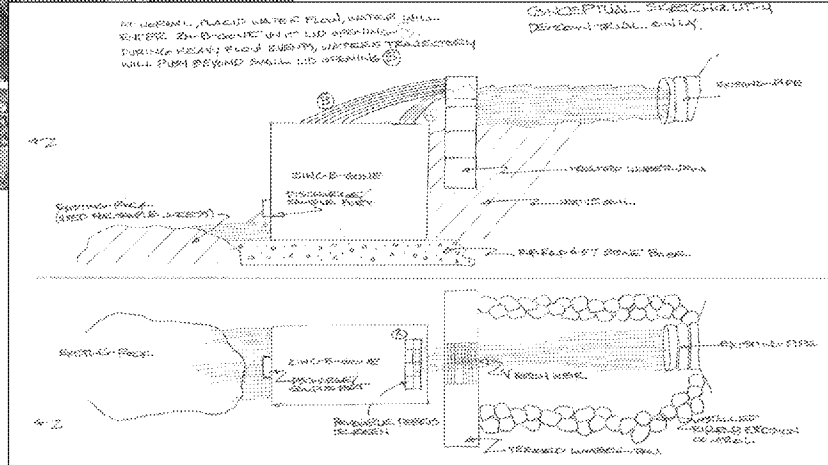
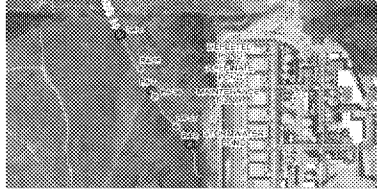
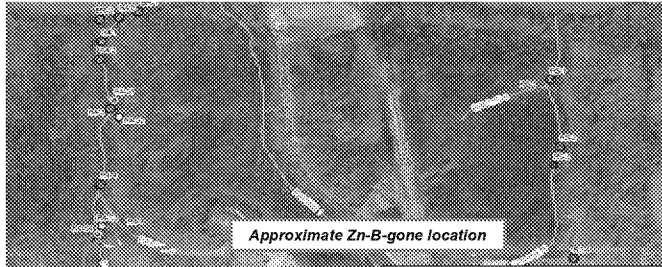
- Volume significantly lower than first pumping event.
- pH is higher than first pumping event.



UT – 4 static treatment option

UT - 4 static treatment trial:

- Contract/PO awarded for installation.
- Verbal approval received from neighbor for installation.



3. Action tracker

Item #	Action	Responsible	Date added	Target completion date	Comments
1	Email to presentation to call participants.	Phil		24-Sep-21	Complete (9/24)
2	Schedule weekly update calls and include DWR on the next one.	AZP (Charlie)		23-Sep-21	Complete (9/24)
3	Gather all data from ravine 4 and send to EPA (Ken).	Phil		24-Sep-21	Complete (9/24)
4	Collect surface water / sediment samples at confluence w/ Broad River.	Phil		TBA	Complete (9/28)
5	Attempt sampling of sediment in west storm water pond.	Phil		1-Oct-21	Complete (9/28)
6	Sample liquid in west storm water pond.	EnSafe		1-Oct-21	Complete (9/24)
7	Provide Sampling Analysis Plan to EPA.	Phil		24-Sep-21	Complete (9/24)
8	Provide first draft proposal for soil remediation/removal.	Ensafe		1-Oct-21	See item 12
9	Install free liquid recovery system and remove accessible saturated soils in raffinate and maintenance ponds.	AZP (Kobus)		13-Oct-21	Complete
10	Review possible use of bentonite to prevent contamination migration to springs/Ravine #4.	EnSafe	-	TBA	Not considered feasible due to concerns over impact on ravine and efficacy.
11	Continue installing monitoring wells for further delineation	EnSafe		TBA	Drilling contractor confirmed for November 29th start.
12	Phase 1 soil remediation	AZP	6-Oct-21	31-Oct-21	Complete.
13	Confirmation sampling of native soil	Ensafe	6-Oct-21	25-Oct-21	Complete.
14	Confirm drilling method and schedule (sonic vs. auger)	Ensafe	6-Oct-21	6-Oct-21	Decision taken to use sonic drilling. Timing to be confirmed.
15	Perform pH and metals sampling and analysis in Ravine #1	EnSafe	6-Oct-21	11-Nov-21	Scheduled for 11/9.
16	Drain storm water pond and sample underneath liner	AZP/Ensafe	14-Oct-21	5-Nov-21	Pond has been emptied to provide access for sampling. Sampling delayed on 10/25 due to liner repair contractor availability.
17	Incorporate ongoing monitoring into SAP.	AZP/EnSafe	20-Oct-21	TBA	
18	Begin researching in-situ treatment options for UT-4.	AZP/EnSafe	27-Oct-21	TBA	